WHAT IS CLAIMED IS:

1. An information processing apparatus capable of instructing a printing device to execute a print job via a predetermined network, comprising:

5        a reader which reads out data from a detachable storage medium;

a print job issuing unit which issues a print job, for which a suspension attribute is set, to said printing device;

10        a client authentication controller which, in the case in which user authentication based upon authentication information peculiar to a user read by said reader is successful, performs control such that issuance of a print job by said job issuing unit is

15    made possible; and

a writer which writes job designation information peculiar to the print job, which is returned from said printing device according to the issuance of the print job by said print job issuing

20    unit, in the detachable storage medium.


2. An information processing apparatus according to Claim 1, wherein

said print job issuing unit is capable of

25    issuing a plurality of print jobs, and

said reader writes job designation information peculiar to each of the plurality of print jobs,

which are returned from said printing device according to the issuance of the plurality of print jobs by said print job issuing unit, in the detachable storage medium.

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3. An information processing apparatus according to Claim 1, wherein said print job issuing unit uses the Internet Printing Protocol as a communication procedure in print job issue and

10 acceptance processing.

4. An information processing apparatus according to Claim 1, wherein the job designation information includes a Job-URI specifying the print

15 job.

5. An information processing apparatus according to Claim 1, wherein said client authentication controller inquires success or failure

20 of user authentication from an authentication server, with which said printer authentication controller can communicate via the network, according to the authentication information peculiar to the user.

25 6. An information processing apparatus according to Claim 5, wherein
said information processing apparatus has a

password input unit which inputs a password peculiar to the user, and

said client authentication controller inquires success or failure of user authentication from said

5    authentication server according to the authentication information peculiar to the user read out from the detachable storage medium and the password peculiar to the user inputted by said password input unit.

10        7.  An information processing apparatus capable of instructing a printing device to execute a print job via a predetermined network, comprising:

a print job issuing unit which issues a print job, for which a suspension attribute is set, to said

15    printing device; and

a writer which writes a Job-URI specifying the print job, which is returned from said printing device according to the issuance of the print job by said print job issuing unit, in the detachable

20    storage medium.

8.  A printing device capable of subjecting a print job, which is issued from an information processing apparatus via a predetermined network, to

25    print processing, comprising:

a print job server which accepts the print job issued from said information processing apparatus and

subjects the print job to print processing and which,
in the case in which a suspension attribute is set in
the print job, performs control such that the print
processing is suspended and held until release of
5    suspension of job processing is instructed;

a job designation information replier which, in
response to acceptance of the print job issued from
said information processing apparatus, replies job
designation information peculiar to the print job to
10   said information processing apparatus;

a reader which reads data of a detachable
storage medium;

a printer authentication controller which, in
the case in which user authentication based upon
15   authentication information peculiar to a user read
out from the detachable storage medium by said reader
is successful, controls permission to use said
printing device; and

a job release controller which, in response to
20   said reader reading out the job designation
information peculiar to the print job from the
detachable storage medium, performs control such that
an instruction to release suspension of job
processing is issued to said print job server.

25

9.   A printing device according to Claim 8,
wherein

said print job server is capable of performing control such that a plurality of print jobs are held, and

said job release controller performs control such that first job designation information stored in the detachable storage medium is read out and an instruction to release suspension of job processing of a print job corresponding to a first job is issued and, in the case in which second job designation information is further stored in the detachable storage medium, second job designation information is successively read out and an instruction to release suspension of printing of a print job corresponding to a second job is issued.

10. A printing device according to Claim 8, wherein said print job server uses the Internet Printing Protocol as a communication procedure in print job issue and acceptance processing.

11. A printing device according to Claim 8, wherein the job designation information includes a Job-URI.

12. A printing device according to Claim 8, further comprising a printing device which executes print processing of a print job corresponding to the

job designation information for which the instruction
to release suspension of printing is issued by said
job release controller.


5      13.  A printing device according to Claim 12,
wherein, after said printing device ends the print
processing, said print job server issues an
instruction to delete the job designation information
corresponding to the print job, for which the print
10    processing has ended, stored in the detachable
storage medium.


14.  A printing device according to Claim 12,
wherein, after said printing device ends the print
15    processing, the print job server deletes the print
job for which the print processing has ended.


15.  A printing device according to Claim 8,
wherein said printer authentication controller
20    controls permission to use said printing device by
inquiring success or failure of user authentication
from an authentication server, with which said
printer authentication controller can communicate via
the network, according to the authentication
25    information peculiar to the user.


16.  A printing device according to Claim 15,

wherein

said printing device has password input means which inputs a password peculiar to the user, and

said printer authentication controller controls
5   permission to use said printing device by inquiring success or failure of user authentication from said authentication server according to the authentication information peculiar to the user read out from the detachable storage medium and the password peculiar
10  to the user inputted by said password input means.


17.   A printing device capable of subjecting a print job, which is issued from an information processing apparatus via a predetermined network, to
15  print processing, comprising:

a print job server which accepts the print job issued from said information processing apparatus and subjects the print job to print processing and which, in the case in which a suspension attribute is set in
20  the print job, performs control such that the print processing is suspended and held until release of suspension of job processing is instructed;

a job designation information replier which, in response to acceptance of the print job issued from
25  said information processing apparatus, replies a Job-URI specifying the print job to said information processing apparatus;

a reader which reads data from and writes data in a detachable storage medium; and

a job release controller which, in response to said reader reading out the Job-URI peculiar to the

5  print job from the detachable storage medium, performs control such that an instruction to release suspension of job processing is issued to said print job server.

10  18. A printing system which has an information processing apparatus capable of instructing a printing device to execute a print job via a predetermined network and a printing device capable of subjecting the print job, which said information

15  processing apparatus instructed said printing device to execute, to print processing,

wherein said information processing apparatus comprises:

a first reader which reads data of a detachable

20  storage medium;

a print job issuing unit which issues a print job to said printing device with a suspension attribute set to the print job;

a client authentication controller which, in

25  the case in which user authentication based upon authentication information peculiar to a user read by said first reader is successful, performs control

such that issuance of the print job by the job
issuing unit is made possible; and

a writer which, in response to the issuance of
the print job by said print job issuing unit, writes

5  job designation information peculiar to the print job
returned from said printing device in the detachable
storage medium, and

wherein said printing device comprises:

a print job server which accepts the print job

10  issued from said information processing apparatus and
subjects the print job to print processing and which,
in the case in which a suspension attribute is set in
the print job, performs control such that the print
processing is suspended and held until release of

15  suspension of job processing is instructed;

a job designation information replier which, in
response to acceptance of the print job issued from
said information processing apparatus, replies job
designation information peculiar to the print job to

20  said information processing apparatus;

a second reader which reads data of a
detachable storage medium;

a printer authentication controller which, in
the case in which user authentication based upon

25  authentication information peculiar to a user read
out from the detachable storage medium by said second
reader is successful, controls permission to use said

printing device; and

a job release controller which, in the case in which job designation information peculiar to the print job in a suspended state is stored in the

5 detachable storage medium, reads out the job designation information and performs control such that an instruction to release suspension of job processing is issued to said print job server.

10 19. A control method for an information processing apparatus which is capable of instructing a printing device to execute a print job via a predetermined network, comprising:

a reading step of reading authentication

15 information peculiar to a user from a detachable storage medium;

a client authenticating step of, in the case in which user authentication based upon authentication information peculiar to the user read in said reading

20 step is successful, performing control such that issuance of a print job is made possible;

a print job issuance step of issuing a print job to the printing device with a suspension attribute set to the print job based upon the control

25 in said client authenticating step; and

a writing step of, in response to issuance of the print job, writing job designation information

peculiar to the print job returned from the printing device in the detachable storage medium.

20. A control method for an information processing apparatus which is capable of instructing a printing device to execute a print job via a predetermined network, comprising:

a reading step of reading authentication information peculiar to a user from a detachable storage medium;

a print job issuance step of issuing a print job to the printing device with a suspension attribute set to the print job; and

a writing step of, in response to issuance of the print job, writing a Job-URI specifying the print job returned from the printing device in the detachable storage medium.

21. A control method for a printing device capable of subjecting a print job, which is issued from an information processing apparatus via a predetermined network, to printing process, comprising:

a print job holding step of, in the case in which a suspension attribute is set in the print job issued from the information processing apparatus, performing control such that the print processing is

suspended and held until release of suspension of job processing is instructed;

a job designation information returning step of, in response to acceptance of the print job issued

5    from the information processing apparatus, returning job designation information peculiar to the print job to the information processing apparatus;

a reading step of reading out authentication information peculiar to the user from a detachable

10    storage medium;

a printer authenticating step of, in the case in which user authentication based upon the authentication information peculiar to the user read out from the detachable storage medium is successful,

15    controlling permission to use the printing device;

a job processing suspension release issuing step of, in the case in which the job designation information peculiar to the suspended print job is stored in the detachable storage medium, issuing an

20    instruction to release suspension of job processing based upon the job designation information; and

a printing step of, in response to the release of suspension of job processing, executing print processing of the print job held in the suspended

25    state.

22. A control method for a printing device

according to Claim 21, further comprising a job designation information deleting step of, after ending the print processing of the print job in said printing step, deleting the job designation

5      information peculiar to the print job from the detachable storage medium.

23.  A control method for a printing device according to Claim 21, further comprising a print job

10     deleting step of, after ending the print processing of the print job in said printing step, deleting the print job.

24.  A control method for a printing device

15     capable of subjecting a print job, which is issued from an information processing apparatus via a predetermined network, to printing process, comprising:

a print job holding step of, in the case in

20     which a suspension attribute is set in the print job issued from the information processing apparatus, performing control such that the print processing is suspended and held until release of suspension of job processing is instructed;

25          a Job-URI returning step of, in response to acceptance of the print job issued from the information processing apparatus, returning a Job-URI

specifying the print job to the information

processing apparatus;

a job processing suspension release issuing

step of, in the case in which the Job-URI is stored

5   in a detachable storage medium, reading out the Job-

URI and issuing an instruction to release suspension

of job processing; and

a printing step of, in response to the release

of suspension of job processing, executing print

10  processing of the print job held in the suspended

state.


25. A printing method for a printing system

which has an information processing apparatus capable

15  of issuing a print job to a printing device via a

predetermined network and instructing remote printing,

and a printing device which is capable of subjecting

the print job issued from the information processing

apparatus to remote print processing, said printing

20  method comprising:

a first reading step of reading authentication

information peculiar to a user from a detachable

storage medium in the information processing

apparatus;

25      a client authenticating step of, in the case in

which user authentication based upon the

authentication information peculiar to the user read

in said first reading step is successful, performing
control such that issuance of a print job is made
possible;

a print job issuing step of issuing a print job
5   with a suspension attribute set to the print job to
the printing device based upon the control in said
client authenticating step;

a job designation information returning step of,
in response to acceptance of the print job issued
10  from the information processing apparatus in the
print job issuing step, returning job designation
information peculiar to the print job to the
information processing apparatus;

a print job holding step of, in the case in
15  which the suspension attribute is set in the print
job issued to the printing device from the
information processing apparatus, performing control
such that the print job is held until release of
suspension of job processing is instructed;

20      a writing step of writing the job designation
information peculiar to the print job returned from
the printing device to the information processing
apparatus in the detachable storage medium;

a second reading step of reading authentication
25  information peculiar to the user from the detachable
storage medium in the printing device;

a printer authenticating step of, in the case

in which user authentication based upon the authentication information peculiar to the user read out from the detachable storage medium is successful, controlling permission to use the printing device;

5      a job processing suspension release issuing step of, in the case in which job designation information peculiar to the suspended print job is stored in the detachable storage medium, reading out the job designation information and issuing an

10   instruction to release suspension of job processing; and

     a printing step of, in response to the release of suspension of job processing, executing print processing of the print job held in the suspended

15   state.


     26. A printing method for a printing system which has an information processing apparatus capable of issuing a print job to a printing device via a

20   predetermined network and instructing remote printing, and a printing device which is capable of subjecting the print job issued from the information processing apparatus to remote print processing, said printing method comprising:

25      a print job issuing step of issuing a print job with a suspension attribute set to the print job to the printing device;

a job designation information returning step of, in response to acceptance of the print job issued from the information processing apparatus in said print job issuing step, returning a Job-URI

5 specifying the print job to the information processing apparatus;

a print job holding step of, in the case in which the suspension attribute is set in the print job issued to the printing device from the

10 information processing apparatus, performing control such that the print job is held until release of suspension of job processing is instructed;

a writing step of writing the Job-URI returned from the printing device to the information

15 processing apparatus in the detachable storage medium;

a job processing suspension release issuing step of, in the case in which job designation information peculiar to the suspended print job is

20 stored in the detachable storage medium, reading out the Job-URI and issuing an instruction to release suspension of job processing; and

a printing step of executing print processing of the print job held in the suspended state based

25 upon the instruction for releasing suspension of job processing.

27. A program for executing a control method for an information processing apparatus which is capable of instructing a printing device to execute a print job via a predetermined network, said control
5    method comprising:

a reading step of reading authentication information peculiar to a user from a detachable storage medium;

a client authenticating step of, in the case in
10   which user authentication based upon authentication information peculiar to the user read in said reading step is successful, performing control such that issuance of a print job is made possible;

a print job issuance step of issuing a print
15   job to the printing device with a suspension attribute set to the print job based upon the control in said client authenticating step; and

a writing step of, in response to issuance of the print job, writing job designation information
20   peculiar to the print job returned from the printing device in the detachable storage medium.


28. A program for executing a control method for an information processing apparatus which is
25   capable of instructing a printing device to execute a print job via a predetermined network, said control method comprising:

a reading step of reading authentication information peculiar to a user from a detachable storage medium;

a print job issuance step of issuing a print
5   job to the printing device with a suspension attribute set to the print job; and

a writing step of, in response to issuance of the print job, writing a Job-URI specifying the print job returned from the printing device in the
10  detachable storage'medium.


29.  A program for executing a control method for a printing device capable of subjecting a print job, which is issued from an information processing
15  apparatus via a predetermined network, to printing process, said control method comprising:

a print job holding step of, in the case in which a suspension attribute is set in the print job issued from the information processing apparatus,
20  performing control such that the print processing is suspended and held until release of suspension of job processing is instructed;

a job designation information returning step of, in response to acceptance of the print job issued
25  from the information processing apparatus, returning job designation information peculiar to the print job to the information processing apparatus;

a reading step of reading out authentication
information peculiar to the user from a detachable
storage medium;

a printer authenticating step of, in the case
in which user authentication based upon the
authentication information peculiar to the user read
out from the detachable storage medium is successful,
controlling permission to use the printing device;

a job processing suspension release issuing
step of, in the case in which the job designation
information peculiar to the suspended print job is
stored in the detachable storage medium, issuing an
instruction to release suspension of job processing
based upon the job designation information; and

a printing step of, in response to the release
of suspension of job processing, executing print
processing of the print job held in the suspended
state.

30. A program for executing a control method
for a printing device capable of subjecting a print
job, which is issued from an information processing
apparatus via a predetermined network, to printing
process, said control method comprising:

a print job holding step of, in the case in
which a suspension attribute is set in the print job
issued from the information processing apparatus,

performing control such that the print processing is
suspended and held until release of suspension of job
processing is instructed;

a Job-URI returning step of, in response to
5    acceptance of the print job issued from the
information processing apparatus, returning a Job-URI
specifying the print job to the information
processing apparatus;

a job processing suspension release issuing
10   step of, in the case in which the Job-URI is stored
in a detachable storage medium, reading out the Job-
URI and issuing an instruction to release suspension
of job processing; and

a printing step of, in response to the release
15   of suspension of job processing, executing print
processing of the print job held in the suspended
state.

31. A program for executing a printing method
20   for a printing system which has an information
processing apparatus capable of issuing a print job
to a printing device via a predetermined network and
instructing remote printing and a printing device
which is capable of subjecting the print job issued
25   from the information processing apparatus to remote
print processing, said printing method comprising:

a first reading step of reading authentication

information peculiar to a user from a detachable

storage medium in the information processing

apparatus;

a client authenticating step of, in the case in

5    which user authentication based upon the

authentication information peculiar to the user read

in the first reading step is successful, performing

control such that issuance of a print job is made

possible;

10    a print job issuing step of issuing a print job

with a suspension attribute set to the print job to

the printing device based upon the control in said

client authenticating step;

a job designation information returning step of,

15    in response to acceptance of the print job issued

from the information processing apparatus in said

print job issuing step, returning job designation

information peculiar to the print job to the

information processing apparatus;

20    a print job holding step of, in the case in

which the suspension attribute is set in the print

job issued to the printing device from the

information processing apparatus, performing control

such that the print job is held until release of

25    suspension of job processing is instructed;

a writing step of writing the job designation

information peculiar to the print job returned from

the printing device to the information processing
apparatus in the detachable storage medium;

a second reading step of reading authentication
information peculiar to the user from the detachable

5    storage medium in the printing device;

a printer authenticating step of, in the case
in which user authentication based upon the
authentication information peculiar to the user read
out from the detachable storage medium is successful,

10   controlling permission to use the printing device;

a job processing suspension release issuing
step of, in the case in which job designation
information peculiar to the suspended print job is
stored in the detachable storage medium, reading out

15   the job designation information and issuing an
instruction to release suspension of job processing;
and

a printing step of, in response to the release
of suspension of job processing, executing print

20   processing of the print job held in the suspended
state.


32.   A program for executing a printing method
for a printing system which has an information

25   processing apparatus capable of issuing a print job
to a printing device via a predetermined network and
instructing remote printing, and a printing device

which is capable of subjecting the print job issued
from the information processing apparatus to remote
print processing, said printing method comprising:

a print job issuing step of issuing a print job
5   with a suspension attribute set to the print job to
the printing device;

a job designation information returning step of,
in response to acceptance of the print job issued
from the information processing apparatus in said
10   print job issuing step, returning a Job-URI
specifying the print job to the information
processing apparatus;

a print job holding step of, in the case in
which the suspension attribute is set in the print
15   job issued to the printing device from the
information processing apparatus, performing control
such that the print job is held until release of
suspension of job processing is instructed;

a writing step of writing the Job-URI returned
20   from the printing device to the information
processing apparatus in the detachable storage
medium;

a job processing suspension release issuing
step of, in the case in which job designation
25   information peculiar to the suspended print job is
stored in the detachable storage medium, reading out
the Job-URI and issuing an instruction to release

suspension of job processing; and

a printing step of executing print processing
of the print job held in the suspended state based
upon the instruction for releasing suspension of job
5   processing.


33. A computer-readable storage medium to which
there is stored a program for executing a control
method for an information processing apparatus which
10   is capable of instructing a printing device to
execute a print job via a predetermined network, said
control method comprising:

a reading step of reading authentication
information peculiar to a user from a detachable
15   storage medium;

a client authenticating step of, in the case in
which user authentication based upon authentication
information peculiar to the user read in said reading
step is successful, performing control such that
20   issuance of a print job is made possible;

a print job issuance step of issuing a print
job to the printing device with a suspension
attribute set to the print job based upon the control
in said client authenticating step; and

25   a writing step of, in response to issuance of
the print job, writing job designation information
peculiar to the print job returned from the printing

device in the detachable storage medium.


34. A computer-readable storage medium to which
there is stored a program for executing a control

5   method for an information processing apparatus which
is capable of instructing a printing device to
execute a print job via a predetermined network, said
control method comprising:
a reading step of reading authentication

10  information peculiar to a user from a detachable
storage medium;
a print job issuance step of issuing a print
job to the printing device with a suspension
attribute set to the print job; and

15      a writing step of, in response to issuance of
the print job, writing a Job-URI specifying the print
job returned from the printing device in the
detachable storage medium.


20      35. A computer-readable storage medium to which
there is stored a program for executing a control
method for a printing device capable of subjecting a
print job which is issued from an information
processing apparatus via a predetermined network, to

25  printing process, said control method comprising:
a print job holding step of, in the case in
which a suspension attribute is set in the print job

issued from the information processing apparatus,
performing control such that the print processing is
suspended and held until release of suspension of job
processing is instructed;

5      a job designation information returning step of,
in response to acceptance of the print job issued
from the information processing apparatus, returning
job designation information peculiar to the print job
to the information processing apparatus;

10      a reading step of reading out authentication
information peculiar to the user from a detachable
storage medium;

      a printer authenticating step of, in the case
in which user authentication based upon the

15    authentication information peculiar to the user read
out from the detachable storage medium is successful,
controlling permission to use the printing device;

      a job processing suspension release issuing
step of, in the case in which the job designation

20    information peculiar to the suspended print job is
stored in the detachable storage medium, issuing an
instruction to release suspension of job processing
based upon the job designation information; and

      a printing step of, in response to the release

25    of suspension of job processing, executing print
processing of the print job held in the suspended
state.

36. A computer-readable storage medium to which there is stored a program for executing a control method for a printing device capable of subjecting a print job which is issued from an information

5 processing apparatus via a predetermined network, to printing process, said control method comprising:

a print job holding step of, in the case in which a suspension attribute is set in the print job issued from the information processing apparatus,

10 performing control such that the print processing is suspended and held until release of suspension of job processing is instructed;

a Job-URI returning step of, in response to acceptance of the print job issued from the

15 information processing apparatus, returning a Job-URI specifying the print job to the information processing apparatus;

a job processing suspension release issuing step of, in the case in which the Job-URI is stored

20 in a detachable storage medium, reading out the Job-URI and issuing an instruction to release suspension of job processing; and

a printing step of, in response to the release of suspension of job processing, executing print

25 processing of the print job held in the suspended state.

37.  A computer-readable storage medium to which
there is stored a program for executing a printing
method for a printing system which has an information
processing apparatus capable of issuing a print job

5   to a printing device via a predetermined network and
instructing remote printing and a printing device
which is capable of subjecting the print job issued
from the information processing apparatus to remote
print processing, said printing method comprising:

10       a first reading step of reading authentication
information peculiar to a user from a detachable
storage medium in the information processing
apparatus;

        a client authenticating step of, in the case in

15   which user authentication based upon the
authentication information peculiar to the user read
in said first reading step is successful, performing
control such that issuance of a print job is made
possible;

20       a print job issuing step of issuing a print job
with a suspension attribute set to the print job to
the printing device based upon the control in said
client authenticating step;

        a job designation information returning step of,

25   in response to acceptance of the print job issued
from the information processing apparatus in said
print job issuing step, returning job designation

information peculiar to the print job to the information processing apparatus;

a print job holding step of, in the case in which the suspension attribute is set in the print job issued to the printing device from the information processing apparatus, performing control such that the print job is held until release of suspension of job processing is instructed;

a writing step of writing the job designation information peculiar to the print job returned from the printing device to the information processing apparatus in the detachable storage medium;

a second reading step of reading authentication information peculiar to the user from the detachable storage medium in the printing device;

a printer authenticating step of, in the case in which user authentication based upon the authentication information peculiar to the user read out from the detachable storage medium is successful, controlling permission to use the printing device;

a job processing suspension release issuing step of, in the case in which job designation information peculiar to the suspended print job is stored in the detachable storage medium, reading out the job designation information and issuing an instruction to release suspension of job processing; and

a printing step of, in response to the release
of suspension of job processing, executing print
processing of the print job held in the suspended
state.

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38. A computer-readable storage medium to which
there is stored a program for executing a printing
method for a printing system which has an information
processing apparatus capable of issuing a print job
10  to a printing device via a predetermined network and
instructing remote printing, and a printing device
which is capable of subjecting the print job issued
from the information processing apparatus to remote
print processing, said printing method comprising:
15       a print job issuing step of issuing a print job
with a suspension attribute set to the print job to
the printing device;
        a job designation information returning step of,
in response to acceptance of the print job issued
20  from the information processing apparatus in said
print job issuing step, returning a Job-URI
specifying the print job to the information
processing apparatus;
        a print job holding step of, in the case in
25  which the suspension attribute is set in the print
job issued to the printing device from the
information processing apparatus, performing control